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ASCO – Australian Standard Classification of Occupations

Information Paper

Statistics

NOTES

RELATED PUBLICATIONS

Users may wish to refer to the following publications which relate to the Australian Standard Classification of Occupations (ASCO) Second Edition and which will be progressively available for sale from the end of the first quarter of 1997:

Australian Standard Classification of Occupations (ASCO) Second Edition (1220.0)

ASCO Manual Coding System: Occupation Level (1227.0)

Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

INQUIRIES

For further information about the contents of this publication, contact Wendy Piper on Canberra (06) 252 5757 or any Australian Bureau of Statistics (ABS) State office.

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Australian Statistician

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AUSTRALIAN STANDARD CLASSIFICATION OF OCCUPATIONS SECOND EDITION

INTRODUCTION

This publication provides an introduction to the Second Edition of the Australian Standard Classification of Occupations (ASCO). It broadly describes the conceptual basis of ASCO and provides an overview of the ASCO Second Edition classification structure and its coding system. The relationship of ASCO Second Edition to the First Edition is discussed and it is also compared to the International Standard Classification of Occupations (ISCO-88) and the 1990 New Zealand Standard Classification of Occupations. Plans for implementing the Second Edition in ABS statistical collections are outlined as are the further ASCO publications and electronic products that will be provided.

THE DEVELOPMENT AND USES OF ASCO FIRST EDITION

The development of ASCO First Edition as the Australian standard for classifying occupations was undertaken jointly by the Australian Bureau of Statistics (ABS) and the (then) Department of Employment and Industrial Relations. The project began in 1978 and ASCO First Edition was introduced progressively into ABS collections from May 1986, replacing the previously used Classification and Classified List of Occupations.

ASCO First Edition was used in all ABS censuses and surveys where occupation data were collected, including the 1986 and 1991 Censuses of Population and Housing, the Labour Force Survey and the Survey of Employee Earnings and Hours.

In 1990 ASCO First Edition was introduced into ABS administrative by-product collections such as births, deaths, marriages and divorces. ASCO First Edition is also used to code occupation responses on visa applications and passenger cards to produce occupation statistics on overseas arrivals and departures.

Major government agencies such as the Commonwealth Employment Service, the Department of Immigration and Multicultural Affairs (DIMA) and Comcare incorporate ASCO in their reporting systems. ASCO is the specified standard for the reporting of workplace accidents under the revised *Regulations of the Occupational Health and Safety (Commonwealth Employment) Act 1991*. Other organisations in both the public and private sectors use ASCO to sort and organise occupation-related information for such purposes as policy development and review, human resource management, and labour market and social research.

REVIEW OF ASCO FIRST EDITION

Widespread industry and award restructuring, technological change and competency-based approaches to career entry and progression have brought about significant occupational changes in the Australian labour market in the ten years since ASCO First Edition was developed.

In order to maintain the relevance of ASCO as the national occupation standard, and to ensure that ABS statistics are relevant and responsive

to the current and evolving needs of its clients, the ABS and the (now) Department of Employment, Education, Training and Youth Affairs (DEETYA) commenced a review of the classification in 1992. This review has encompassed both the structural and the definitional content of the classification and has been completed in time for the Second Edition of ASCO to be introduced into various ABS collections from May 1996 onwards.

In undertaking the review, the ABS and DEETYA consulted widely with key users of ASCO, industry training bodies, unions, employer bodies and professional associations and are indebted to them for their valuable input into the review process.

CONCEPTUAL BASIS AND STRUCTURE OF ASCO

ASCO is a skill-based classification of occupations which covers all jobs in the Australian work force. The concepts of 'job' and 'occupation' are fundamental to an understanding of the classification. For the purposes of ASCO, a job is defined as the set of tasks designed to be performed by one individual while an occupation is a set of jobs with similar sets of tasks. Within ASCO, occupations are classified according to two criteria — *skill level* and *skill specialisation*.

Skill level In ASCO, this is defined as the range and complexity of the set of tasks involved: the greater the range and complexity of the set of tasks, the greater the skill level of the occupation.

In ASCO First Edition, skill level was measured operationally as the amount of formal education, on-the-job training and previous experience usually necessary for the satisfactory performance of the set of tasks.

The concept of skill level remains unchanged in ASCO Second Edition. However, the operational definition of skill level has been refined as a result of competency-based initiatives in employment and training and an increased emphasis on entry requirements to an occupation. This emphasis on entry requirements arises largely from the difficulty in objectively measuring the skill level required for the satisfactory performance of tasks.

The criteria used in ASCO Second Edition to measure skill level are the formal education and/or training and previous experience usually required for entry to the occupation. In instances where information relating to these entry requirements was not available, relevant minimum endorsed competency standards were also considered in measuring the skill level of an occupation.

Where these criteria were not sufficient or appropriate for determining the skill level of a particular occupation, the range and complexity of the set of tasks involved was determined by application of the following criteria (for which on-the-job training may be a useful measure):

- breadth/depth of knowledge required
- range of skills required

- variability of operating environment
- level of autonomy as determined by the degree of discretion and choice which may be required to perform the set of tasks.

Skill specialisation The skill specialisation of an occupation is a function of the field of knowledge required, tools and equipment used, materials worked on, and goods or services produced in relation to the tasks performed. In ASCO Second Edition the definition of skill specialisation remains unchanged but includes reference to non-production based operations. For example tools and equipment can also include all forms of computer-based equipment, personal interaction and art or design techniques. Materials worked on can also include data and individual or group service. Goods and services produced has been renamed goods or services provided and includes, for example, data and personal service.

THE CLASSIFICATION STRUCTURE OF ASCO SECOND EDITION

The structure of ASCO Second Edition comprises five hierarchical levels: Major Group, Sub-Major Group, Minor Group, Unit Group and Occupation. A profile of the ASCO Second Edition structure and a listing of the Major, Sub-Major, Minor, Unit Groups and Occupations are shown in Appendixes 1, 3 and 4.

This represents a change from ASCO First Edition, where the structure consisted of four levels: Major Group, Minor Group, Unit Group and Occupation. The Sub-Major Group level has been added to the structure to enhance users' options for statistical output. The table below indicates the number of groups in each edition:

	First Edition	Second Edition
Major Group	8	9
Sub-Major Group	n.a.	35
Minor Group	52	81
Unit Group	282	340
Occupation	1 079	986

In recognition of the need to maintain comparability and consistency between ASCO First Edition and ASCO Second Edition, changes at the unit group (four-digit) level have been made only where this was unavoidable. Although there are instances where unit group codes and titles have been altered, a large proportion of First and Second Edition unit groups can be linked to facilitate time series analysis.

In terms of comparability between ASCO First Edition and Second Edition, approximately two-thirds of the old and new unit groups are directly comparable while occupations in the remaining First Edition unit groups have been distributed into a number of new unit groups in Second Edition.

CONCORDANCE

A detailed concordance between occupations in the two editions will be included in the *Australian Standard Classification of Occupations (ASCO) Second Edition (1220.0)* which will be released in March 1997. The concordance will show where a one to one relationship exists between occupations in the First and Second

Editions, and when it does not. This concordance is based on occupation data from the 1991 Census of Population and Housing.

Following completion of data processing of the 1996 Census, an updated concordance will be produced that shows actual proportional relationships between the categories of the First and Second editions.

MAJOR STRUCTURAL DIFFERENCES BETWEEN ASCO FIRST EDITION AND SECOND EDITION

ASCO First Edition had eight major groups representing eight skill levels. A more rigorous approach to the application of the skill level criteria has resulted in changes to the way some occupations are classified in ASCO Second Edition. In the Second Edition the skill level of major groups is clarified by arranging nine major groups into one of five skill levels. This addresses criticism of First Edition ASCO which has eight skill levels corresponding with the eight major groups. Major groups at the same skill level are differentiated according to a broad application of the skill specialisation concept.

As mentioned previously, ASCO Second Edition includes an additional level in the classification hierarchy. There are now five hierarchical levels — Major Group, Sub-Major Group, Minor Group, Unit Group and Occupation. It was considered that the addition of the sub-major group level will enhance users' options for statistical output particularly where sample sizes preclude output at the minor group level.

An important change has been the reorganisation of First Edition Major Group 5 Clerks and Major Group 6 Sales and Personal Service Workers into three major groups at different skill levels to better reflect the skill level of the occupations they cover. Instead of two major groups for clerical and sales and service occupations, there are now three — Advanced, Intermediate and Elementary.

In some areas of the classification additional unit groups have been created to provide more detailed information at the unit group level.

Specific examples of some other important changes to the classification are outlined below.

Managing supervisors

Managers of small organisations and businesses which do not necessarily have a hierarchy of managers, are now classified in Major Group 3 Associate Professionals (Skill Level 2), in contrast to First Edition where they were classified in Major Group 1 (at Skill Level 1) along with general and specialist manager occupations.

Air and sea transport technical workers

ASCO First Edition Minor Group 33 Air and Sea Transport Technical Workers has been moved to Major Group 2 Professionals.

Registered nurses

The First Edition Minor Group 34 Registered Nurses has been moved to Major Group 2 Professionals.

- | | |
|-----------------|--|
| Enrolled nurses | The First Edition Unit Group 6603 Enrolled Nurses has been moved to Major Group 3 Associate Professionals and is now Minor Group 341 Enrolled Nurses. |
| Welfare workers | Welfare Workers have been moved from Unit group 3901 Welfare Para-professionals in ASCO First Edition to ASCO Second Edition Unit Group 2512 Welfare and Community Workers. |
| Other changes | Other changes reflected in the ASCO Second Edition structure are the result of the emergence and decline of occupations in the Australian labour market. The increased significance of various industry sectors to the economy, in particular the service and information technology sectors, has lead to the emergence of a number of new occupations. Conversely, technological and structural changes in the Australian work force have also resulted in the decline of some occupations. |

Similarly, a trend toward the upgrading of skills and training required for many occupations in the Australian work force has resulted in the reclassification of certain occupations to more appropriate skill levels in the ASCO Second Edition structure.

STATISTICAL BALANCE AND FEASIBILITY

As a general principle a classification should be statistically balanced. Similar numbers of 'real-world' entities should be classified to each category at a particular level. However categories which have been defined to reflect the real world will not always be statistically balanced. To force categories to conform to size limitations would mean that the categories would not always be meaningful or useful. On the other hand the number of entities in each category should be sufficiently large to ensure that confidentiality of the data is not compromised.

A number of First Edition occupations have been split into separate Second Edition occupations to facilitate greater disaggregation of data. For example, the First Edition occupation Accountant has been split into three separate occupations in ASCO Second Edition: Accountant, External Auditor and Internal Auditor.

The issue of statistical feasibility has had a significant impact on the classification of supervisory occupations. While it is clear that a higher level of skill and training is required for entry to some supervisory occupations, it has been necessary to classify many supervisory occupations together with the occupations they supervise because it is not practicable to make the necessary distinction in statistical collections. However, where there is a marked difference in the tasks performed, a separate supervisory occupation has been specified.

Similar considerations have impacted on the classification of apprentice and trainee occupations. It is acknowledged that the skill level for entry into occupations as an apprentice or trainee is lower than the skill level requirements of the occupation. However statistical and operational considerations have meant that apprentices and trainees are generally located in the same unit group as the occupations they are training toward, the exceptions being Office

Trainees and Sales and Service Trainees which are unit groups of their own. In addition, although in ASCO First Edition each tradesperson unit group contained only one apprentice occupation relating to that unit group, most tradesperson unit groups in ASCO Second Edition include an apprentice occupation corresponding to each tradesperson occupation in that unit group.

IMPLEMENTATION OF ASCO SECOND EDITION IN ABS COLLECTIONS

There will be a phased introduction of ASCO Second Edition into ABS collections. The following is a guide to its implementation.

1996 Census of Population and Housing

All occupation information reported in the 1996 Census will be coded to ASCO Second Edition. As in previous years standard output data on occupations will be published at the unit group level. An electronic file linking First and Second Editions of ASCO at the occupation level will be available in late 1997 after processing of the 1996 Census has been completed.

Labour Force Survey

Occupation information reported in the August 1996 Labour Force Survey will be coded to ASCO Second Edition. An information paper outlining the changes to labour force data following the introduction of ASCO Second Edition will be released later in 1996. A preliminary concordance between the two editions of ASCO will also be included in this paper. Further details of this paper can be obtained by contacting Sylvia Sajler on (06) 252 6565.

Survey of Employee Earnings and Hours

All occupation data reported in the May 1996 Survey of Employee Earnings and Hours will be coded to ASCO First and Second Editions. Data in the publications *Distribution and Composition of Employee Earnings and Hours, Australia, Preliminary* (6305.0) and *Distribution and Composition of Employee Earnings and Hours, Australia* (6306.0) will reflect ASCO Second Edition major, minor and unit groups. A limited amount of data will be published according to ASCO First Edition. Further information regarding times series for this collection can be obtained by contacting Rory Carle on (09) 360 5286.

Labour Cost Index Survey

Occupation information to be collected in this survey now under development will be coded to ASCO Second Edition and along with other information will be used to complete the ordinary time earnings component of the quarterly Labour Cost Index. The Labour Cost Index will provide a measure of the change in the cost to organisations of employing labour, and will be used in formulating industrial relations and wages policies, economic analysis and contract adjustment. Further details of this survey can be obtained by contacting Dan Aherne on (06) 252 7418.

Survey of Employment and Unemployment Patterns

Occupation data collected in the 1996 second wave of this longitudinal survey will be coded to ASCO Second Edition. Data from

the 1995 first wave was originally coded to ASCO First Edition and will be recoded. Further information about this survey can be obtained by contacting Mel Butler on (06) 252 5936.

Overseas arrivals and departures

The Department of Immigration and Multicultural Affairs (DIMA) currently codes occupation data for long-term and permanent arrivals to ASCO First Edition. These data appear in ABS and DIMA publications at minor group level. The timing of the introduction of ASCO Second Edition into this collection has yet to be determined.

Births and deaths

Occupation data reported in relation to births and deaths are coded to ASCO. In the births and deaths collections, the introduction of ASCO Second Edition is planned to take place at the conclusion of the 1996 processing, that is, for data from 1 January 1997. Further information about these collections can be obtained by contacting John Alexander on (07) 3222 6047.

IMPLEMENTATION OF ASCO SECOND EDITION WITHIN DEETYA

The Department of Employment, Education, Training and Youth Affairs (DEETYA) is committed to introducing ASCO Second Edition as soon as it is technically feasible in its information systems. This could be as early as the first half of 1997. The Department's major careers advice publication, *Job Guide*, will also be based on ASCO Second Edition as from 1997.

INTERPRETING ASCO OCCUPATION DEFINITIONS

ASCO is primarily a statistical classification designed to aggregate and organise data collected about jobs or individuals. The classification definitions are based on the skill level and specialisation *usually* necessary to perform the tasks of the specific occupation, or of most occupations in the group. The definitions and skill level statements apply to the occupation and not the incumbent. The allocation of a particular occupation to a particular skill level should be seen as indicative and not be used prescriptively.

A STRUCTURED CODING SYSTEM

Assigning ASCO codes to occupation or job descriptions requires the use of a rule-based system to ensure that it is performed in an accurate, consistent and efficient manner.

To consistently and reliably allocate responses from statistical collections to any level of the ASCO structure, data on occupation tasks as well as the occupation title are needed. The coding system is designed to utilise, in a structured way, the responses from up to four distinct questions: occupation title, main tasks performed, industry of employer and employer's name. Primary importance is given to the occupation title, but extensive use is made of main tasks performed in the job. Restricted use can also be made of information given in response to questions on industry and employer's name when it is collected.

The structured coding system may be implemented as a clerical procedure or through computer-assisted coding. There is no functional difference between the two forms of coding; that is, they

are based on the same coding methodology and procedures, and are designed to yield the same results.

The review of ASCO has been accompanied by the development of a Windows-based structured coding system for PCs, which enables occupation responses to be coded to either the unit group or occupation level of the classification with a high degree of accuracy and consistency. This Windows-based coding system will replace the ASCO Expert system (a DOS-based system) which was developed for coding to ASCO First Edition.

The new system is being implemented in the ABS for coding occupation data from the 1996 Census of Population and Housing and from some other ABS statistical collections. More information on the new coding system and its intended release is provided in the ASCO Second Edition products listed below.

INTERNATIONAL COMPARABILITY

The International Standard Classification of Occupations (ISCO) was developed by the International Labour Office in Geneva. ISCO was first issued in 1958 and revised versions were produced in 1968 and 1988. The main aims of ISCO are to provide a basis for international comparisons of occupation statistics between member countries and to provide a conceptual model for the developments of national occupation classifications. The most recent edition, ISCO-88, was developed using a similar conceptual basis to that of ASCO First Edition.

At the time of its release in 1986, ASCO First Edition was significantly different from most other occupation classifications used by national and international statistical agencies. The major change from international practice prior to that time lay in the use of skill level and skill specialisation as criteria to structure the occupation classification. ISCO-88 also uses these criteria in the conceptual framework for the classification. Four broad skill levels are used, defined in terms of the educational categories and levels which appear in the International Standard Classification of Education, published by the United Nations Educational, Scientific and Cultural Organisation.

ISCO-88 consists of 10 major groups, 28 sub-major groups, 116 minor groups and 390 unit groups. The occupation level is not defined in ISCO-88, as it is expected that individual countries will develop this level of detail to suit national requirements.

The ten major groups in ISCO-88 remain broadly similar to the nine ASCO Second Edition major groups. The most significant difference at major group level is that ISCO-88 has identified skilled Agricultural and Fishery Workers as a separate major group (Major Group 6), whereas ASCO Second Edition includes Farmers and Farm Managers as a sub-major group in Major Group 1 Managers and Administrators, and skilled Agricultural and Horticultural Workers as a sub-major group in Major Group 4 Tradespersons and Related Workers.

ISCO-88 also includes a separate Major Group 0, for the Armed Forces. In ASCO Second Edition, jobs held by members of the Armed Forces are classified together with their civilian equivalents where these exist and to a number of other specific occupations.

In common with ISCO-88, ASCO Second Edition now incorporates the sub-major group as a level of aggregation between the major and minor groups.

NEW ZEALAND STANDARD CLASSIFICATION OF OCCUPATIONS

In 1990, Statistics New Zealand released the New Zealand Standard Classification of Occupations (NZSCO). This is also a skill-based classification which uses skill level and skill specialisation as the primary criteria for classifying occupations. The major difference between NZSCO and ASCO Second Edition is its use of 10 major groups in the classification and, similar to ISCO-88, NZSCO has a separate major group for Armed Forces.

Early in the development phase of ASCO Second Edition, consideration was given to developing a joint Australian and New Zealand classification. However, a number of practical considerations precluded this development, chiefly the timing of the ASCO Review in relation to NZSCO and the need to have ASCO Second Edition ready for use in the 1996 Census.

ASCO PRODUCTS

ASCO First Edition publications and products will remain available for a short time following the release of ASCO Second Edition.

ASCO Second Edition products

The following ABS publications and products will be available progressively from the end of the first quarter of 1997.

Australian Standard Classification of Occupations (ASCO) Second Edition (1220.0)

This publication is intended for users who wish to understand the detailed structure and content of the classification as an aid in interpreting ABS statistics. It is also a necessary resource document for use in resolving coding queries when processing occupation data.

The conceptual basis of ASCO will be examined together with a description of the ASCO structure and an outline of the history of the development of the classification.

The main part of the publication will show the hierarchical structure of the classification down to the finest level of detail, the occupation level. It will also comprise a summary of the ASCO classification criteria and coding conventions. Definitions for the 9 major groups, 35 sub-major groups, 81 minor groups, 340 unit groups and 986 occupations in the classification will be included. As mentioned previously, a concordance between First and Second Edition will be included as an appendix.

This publication will combine and supersede the contents of the First Edition publications, *ASCO Statistical Classifications* (1986) (1222.0) and *ASCO Occupation Definitions* (1990) (1223.0). However, as previously mentioned, both these First Edition publications will remain available for a brief time following the release of ASCO Second Edition.

This publication will also supersede the AGPS publication *ASCO Dictionary*.

Expected release date: 31 March 1997

Price: tba

*ASCO Manual Coding System:
Occupation Level (1227.0)*

This publication will be updated for ASCO Second Edition. The coding procedures will remain unchanged.

This publication specifies the procedures and provides the indexes for the manual coding of occupation data to the 986 categories at the most detailed level of ASCO. It is intended for users who wish to assign six-digit ASCO codes on the basis of relatively detailed information such as is available from human resource management systems, job vacancy specifications or responses in special purpose statistical collections. For users wishing to code to the four-digit level only, the same coding procedures may be used, recording only the first four digits of the code. A four-digit index will be available if required on request.

Additional classification
information on electronic media

Floppy disk

The above publications, or parts thereof, will be available as floppy disk products using ASCII text files. Further information and order forms for ASCO Second Edition products may be obtained from the ASCO contact officer or through ABS bookshops located in ABS State and Territory offices following the release of *Australian Standard Classification of Occupations (ASCO) Second Edition (1220.0)*.

CD-ROM

It is intended to provide most of the ASCO Second Edition products on CD-ROM. The classification together with definitions, coding procedures (both manual and computer-assisted) will be available on a single CD-ROM. Further details of this product will be available in March 1997.

Computer-assisted coding systems

The previous computer-assisted coding package, ASCO Expert, will not be available after July 1997. However, the same coding methodology will be available in a Windows-based coder which will supersede the First Edition products *ASCO Expert Coding System: Unit Group Level (1990) (1224.0)* and *ASCO Expert Coding System: Occupation Level (1991) (1226.0)*. The Windows-based coder is already available for coding industry data to the Australian and New Zealand Standard Industrial Classification and will be able to be used for coding occupation data when ASCO Second Edition is released in March 1997. Further information regarding the Windows coder can be obtained from either Doug Baldwin on (06) 252 5346 (for industry coding) or Andrew Woolley on (06) 252 7073 (for occupation coding).

ASCO SERVICES

The ABS offers a consultancy service to organisations which are considering adopting ASCO as the basis of human resource management systems or using ASCO in their own statistical collections. These services are charged at an ABS standard rate.

Further details of ASCO publications and products may be found in the *ABS Catalogue of Publications and Products* (1101.0). Publications are available through ABS bookshops. A complete listing of ABS products on floppy disk may be found in the *Catalogue of Electronic Products* (1111.0).

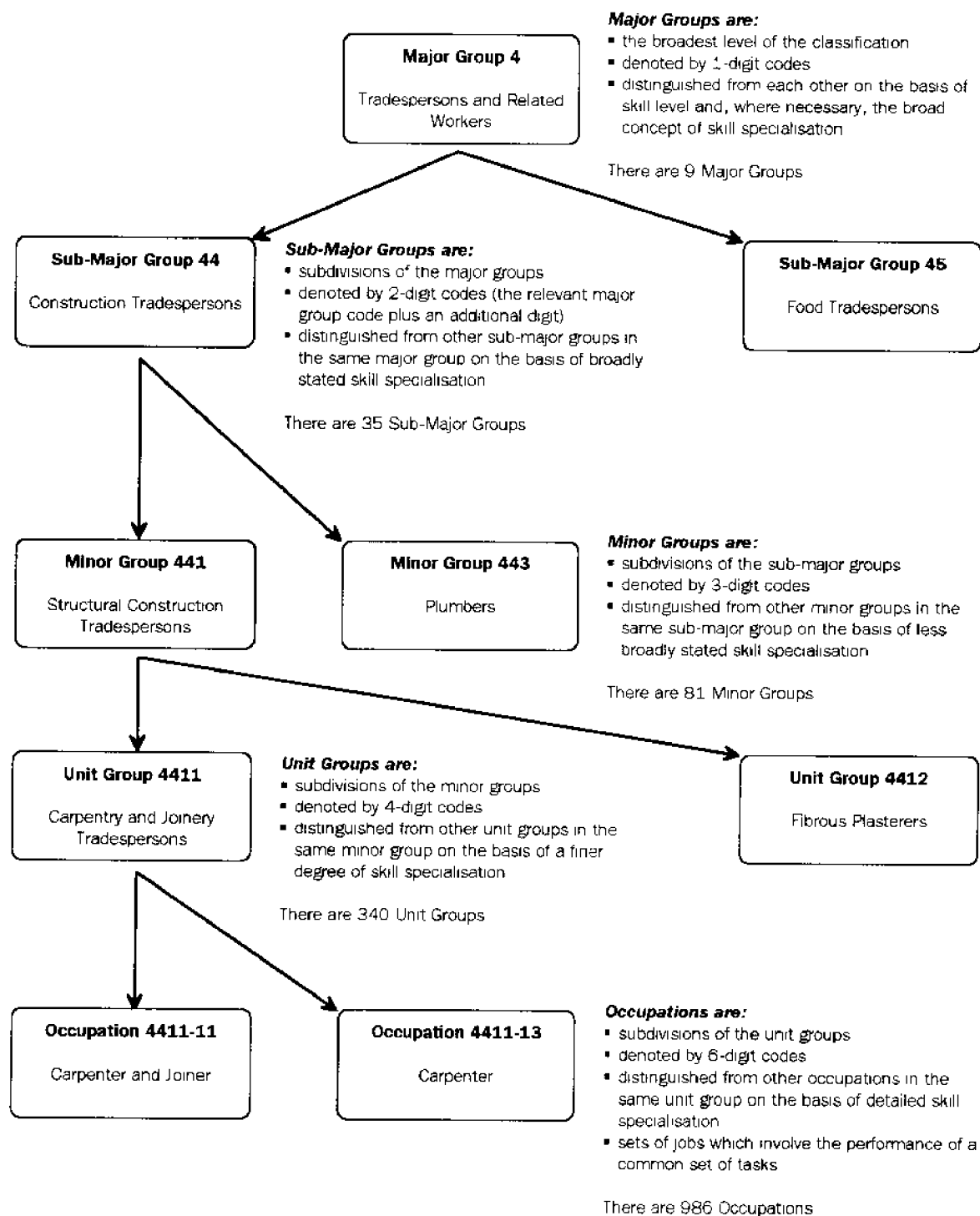
Inquiries regarding these products should be directed to the ASCO contact officer on (06) 252 5757. Order forms will be available from the contact officer, or through ABS bookshops.

APPENDIX 1 PROFILE OF THE ASCO SECOND EDITION STRUCTURE

The structure of ASCO Second Edition has five levels:

major group
sub-major group
minor group
unit group
occupation

The following is an illustration of a representative part of the ASCO Second Edition structure:



APPENDIX 2 ASCO SECOND EDITION SKILL LEVELS

MAJOR GROUP		SKILL LEVEL	
1	Managers and Administrators	}	1
2	Professionals		
3	Associate Professionals		2
4	Tradespersons and Related Workers	}	3
5	Advanced Clerical and Service Workers		
6	Intermediate Clerical, Sales and Service Workers	}	4
7	Intermediate Production and Transport Workers		
8	Elementary Clerical, Sales and Service Workers	}	5
9	Labourers and Related Workers		

The relationship between the nine major groups and five skill levels is explained under the heading Conceptual Basis and Structure of ASCO on page 5.

APPENDIX 3 ASCO SECOND EDITION — MAJOR AND SUB-MAJOR GROUPS

1 MANAGERS AND ADMINISTRATORS

- 11 Generalist Managers
- 12 Specialist Managers
- 13 Farmers and Farm Managers

2 PROFESSIONALS

- 21 Science, Building and Engineering Professionals
- 22 Business and Information Professionals
- 23 Health Professionals
- 24 Education Professionals
- 25 Social, Arts and Miscellaneous Professionals

3 ASSOCIATE PROFESSIONALS

- 31 Science, Engineering and Related Associate Professionals
- 32 Business and Administration Associate Professionals
- 33 Managing Supervisors (Sales and Service)
- 34 Health and Welfare Associate Professionals
- 39 Other Associate Professionals

4 TRADESPERSONS AND RELATED WORKERS

- 41 Mechanical and Fabrication Engineering Tradespersons
- 42 Automotive Tradespersons
- 43 Electrical and Electronics Tradespersons
- 44 Construction Tradespersons
- 45 Food Tradespersons
- 46 Skilled Agricultural and Horticultural Workers
- 49 Other Tradespersons and Related Workers

5 ADVANCED CLERICAL AND SERVICE WORKERS

- 51 Secretaries and Personal Assistants
- 59 Other Advanced Clerical and Service Workers

6 INTERMEDIATE CLERICAL, SALES AND SERVICE WORKERS

- 61 Intermediate Clerical Workers
- 62 Intermediate Sales and Related Workers
- 63 Intermediate Service Workers

7 INTERMEDIATE PRODUCTION AND TRANSPORT WORKERS

- 71 Intermediate Plant Operators
- 72 Intermediate Machine Operators
- 73 Road and Rail Transport Drivers
- 79 Other Intermediate Production and Transport Workers

8 ELEMENTARY CLERICAL, SALES AND SERVICE WORKERS

- 81 Elementary Clerks
- 82 Elementary Sales Workers
- 83 Elementary Service Workers

9 LABOURERS AND RELATED WORKERS

- 91 Cleaners
- 92 Factory Labourers
- 99 Other Labourers and Related Workers

APPENDIX 4 ASCO SECOND EDITION — MAJOR, SUB-MAJOR, MINOR, UNIT GROUPS AND OCCUPATIONS

1	MANAGERS AND ADMINISTRATORS	1222-13	Production Manager (Mining)
11	GENERALIST MANAGERS	1223	Supply and Distribution Managers
111	GENERAL MANAGERS AND ADMINISTRATORS	1223-11	Supply and Distribution Manager
1111	Legislators and Government Appointed Officials	1224	Information Technology Managers
1111-11	Parliamentarian or Councillor	1224-11	Information Technology Manager
1111-13	Judge	123	SALES AND MARKETING MANAGERS
1111-15	Magistrate	1231	Sales and Marketing Managers
1111-17	Tribunal Member	1231-11	Sales and Marketing Manager
1111-79	Legislators and Government Appointed Officials nec	129	MISCELLANEOUS SPECIALIST MANAGERS
1112	General Managers	1291	Policy and Planning Managers
1112-11	General Manager	1291-11	Policy and Planning Manager
119	MISCELLANEOUS GENERALIST MANAGERS	1292	Health Services Managers
1191	Building and Construction Managers	1292-11	Director of Nursing
1191-11	Construction Project Manager	1292-13	Medical Administrator
1191-13	Project Builder	1293	Education Managers
1192	Importers, Exporters and Wholesalers	1293-11	School Principal
1192-11	Importer or Exporter	1293-13	Faculty Head
1192-13	Wholesaler	1293-15	Regional Education Manager
1193	Manufacturers	1293-79	Education Managers nec
1193-11	Manufacturer	1294	Commissioned Officers (Management)
12	SPECIALIST MANAGERS	1294-11	Commissioned Defence Force Officer
121	RESOURCE MANAGERS	1294-13	Commissioned Fire Officer
1211	Finance Managers	1294-15	Commissioned Police Officer
1211-11	Finance Manager	1294-81	Trainee Commissioned Defence Force Officer
1212	Company Secretaries	1295	Child Care Co-ordinators
1212-11	Company Secretary	1295-11	Child Care Co-ordinator
1213	Human Resource Managers	1296	Media Producers and Artistic Directors
1213-11	Human Resource Manager	1296-11	Media Producer
122	ENGINEERING, DISTRIBUTION AND PROCESS MANAGERS	1296-13	Artistic Director
1221	Engineering Managers	1299	Other Specialist Managers
1221-11	Engineering Manager	1299-11	Research and Development Manager
1222	Production Managers	1299-13	Laboratory Manager
1222-11	Production Manager (Manufacturing)	1299-15	Welfare Centre Manager
		1299-17	Environment, Parks and Land Care Manager
		1299-19	Sports Administrator
		1299-79	Specialist Managers nec

13 FARMERS AND FARM MANAGERS

131 FARMERS AND FARM MANAGERS

1311 Mixed Crop and Livestock Farmers

1311-11 Mixed Crop and Livestock Farmer

1312 Livestock Farmers

1312-11 Mixed Livestock Farmer

1312-13 Beef Cattle Farmer

1312-15 Dairy Farmer

1312-17 Sheep Farmer

1312-19 Pig Farmer

1312-21 Poultry Farmer

1312-23 Horse Breeder

1312-25 Apiarist

1312-79 Livestock Farmers nec

1313 Crop Farmers

1313-11 Grain, Oilseed and Pasture Grower

1313-13 Sugar Cane Grower

1313-15 Tobacco Grower

1313-17 Fruit and Nut Grower

1313-19 Vegetable Grower

1313-21 Flower Grower

1313-79 Crop Farmers nec

1314 Aquaculture Farmers

1314-11 Aquaculture Farmer

2 PROFESSIONALS

21 SCIENCE, BUILDING AND ENGINEERING PROFESSIONALS

211 NATURAL AND PHYSICAL SCIENCE PROFESSIONALS

2111 Chemists

2111-11 Chemist

2112 Geologists and Geophysicists

2112-11 Geologist

2112-13 Geophysicist

2113 Life Scientists

2113-11 Anatomist or Physiologist

2113-13 Botanist

2113-15 Zoologist

2113-17 Biochemist

2113-19 Marine Biologist

2113-79 Life Scientists nec

2114 Environmental and Agricultural Science Professionals

2114-11 Environmental Research Scientist

2114-13 Forester

2114-15 Park Ranger

2114-17 Soil Scientist

2114-19 Agricultural Scientist

2114-21 Agricultural Adviser

2114-79 Environmental and Agricultural Science Professionals nec

2115 Medical Scientists

2115-11 Medical Scientist

2119 Other Natural and Physical Science Professionals

2119-11 Physicist

2119-13 Meteorologist

2119-15 Extractive Metallurgist

2119-17 Physical Metallurgist

2119-19 Materials Scientist

2119-79 Natural and Physical Science Professionals nec

212 BUILDING AND ENGINEERING PROFESSIONALS

2121 Architects and Landscape Architects

2121-11 Architect

2121-13 Landscape Architect

2122 Quantity Surveyors

2122-11 Quantity Surveyor

2123 Cartographers and Surveyors

2123-11 Cartographer

2123-13 Surveyor

2124 Civil Engineers

2124-11 Civil Engineer

2125 Electrical and Electronics Engineers

2125-11 Electrical Engineer

2125-13 Electronics Engineer

2126 Mechanical, Production and Plant Engineers

2126-11 Mechanical Engineer

2126-13 Production or Plant Engineer

2127 Mining and Materials Engineers

2127-11 Mining Engineer (excluding Petroleum)

2127-13 Petroleum Engineer

2127-15 Materials Engineer

2128 Engineering Technologists

2128-11 Civil Engineering Technologist

2128-13 Mechanical Engineering Technologist
 2128-15 Electrical or Electronics Engineering Technologist
 2128-79 Engineering Technologists nec
 2129 **Other Building and Engineering Professionals**
 2129-11 Aeronautical Engineer
 2129-13 Agricultural Engineer
 2129-15 Biomedical Engineer
 2129-17 Chemical Engineer
 2129-19 Industrial Engineer
 2129-21 Naval Architect
 2129-79 Building and Engineering Professionals nec
 22 **BUSINESS AND INFORMATION PROFESSIONALS**
 221 **ACCOUNTANTS, AUDITORS AND CORPORATE TREASURERS**
 2211 **Accountants**
 2211-11 Accountant
 2212 **Auditors**
 2212-11 External Auditor
 2212-13 Internal Auditor
 2213 **Corporate Treasurers**
 2213-11 Corporate Treasurer
 222 **SALES, MARKETING AND ADVERTISING PROFESSIONALS**
 2221 **Marketing and Advertising Professionals**
 2221-11 Public Relations Officer
 2221-13 Marketing Specialist
 2221-15 Market Research Analyst
 2221-17 Advertising Specialist
 2222 **Technical Sales Representatives**
 2222-11 Sales Representative (Industrial Products)
 2222-13 Sales Representative (Information and Communication Products)
 2222-15 Sales Representative (Medical and Pharmaceutical Products)
 2222-79 Technical Sales Representatives nec
 223 **COMPUTING PROFESSIONALS**
 2231 **Computing Professionals**
 2231-11 Systems Manager
 2231-13 Systems Designer
 2231-15 Software Designer

2231-17 Applications and Analyst Programmer
 2231-19 Systems Programmer
 2231-21 Computer Systems Auditor
 2231-79 Computing Professionals nec
 229 **MISCELLANEOUS BUSINESS AND INFORMATION PROFESSIONALS**
 2291 **Human Resource Professionals**
 2291-11 Personnel Officer
 2291-13 Personnel Consultant
 2291-15 Industrial Relations Officer
 2291-17 Training Officer
 2292 **Librarians**
 2292-11 Librarian
 2293 **Mathematicians, Statisticians and Actuaries**
 2293-11 Mathematician
 2293-13 Statistician
 2293-15 Actuary
 2294 **Business and Organisation Analysts**
 2294-11 Management Consultant
 2294-13 Organisation and Methods Analyst
 2294-15 Quality Assurance Manager
 2295 **Property Professionals**
 2295-11 Valuer
 2295-13 Land Economist
 2299 **Other Business and Information Professionals**
 2299-11 Health Information Manager
 2299-13 Records Manager
 2299-15 Archivist
 2299-17 Policy Analyst
 2299-19 Intelligence Officer
 2299-79 Business and Information Professionals nec
 23 **HEALTH PROFESSIONALS**
 231 **MEDICAL PRACTITIONERS**
 2311 **Generalist Medical Practitioners**
 2311-11 General Medical Practitioner
 2311-81 Medical Practitioner in Training
 2312 **Specialist Medical Practitioners**
 2312-11 Anaesthetist
 2312-13 Dermatologist
 2312-15 Emergency Medicine Specialist

2312-17 Obstetrician and Gynaecologist
 2312-19 Ophthalmologist
 2312-21 Paediatrician
 2312-23 Pathologist
 2312-25 Specialist Physician
 2312-27 Psychiatrist
 2312-29 Radiologist
 2312-31 Surgeon
 2312-79 Specialist Medical Practitioners nec
232 NURSING PROFESSIONALS
2321 Nurse Managers
 2321-11 Nurse Manager
2322 Nurse Educators and Researchers
 2322-11 Nurse Educator
 2322-13 Nurse Researcher
2323 Registered Nurses
 2323-11 Registered Nurse
2324 Registered Midwives
 2324-11 Registered Midwife
2325 Registered Mental Health Nurses
 2325-11 Registered Mental Health Nurse
2326 Registered Developmental Disability Nurses
 2326-11 Registered Developmental Disability Nurse
238 MISCELLANEOUS HEALTH PROFESSIONALS
2381 Dental Practitioners
 2381-11 Dentist
 2381-13 Dental Specialist
2382 Pharmacists
 2382-11 Hospital Pharmacist
 2382-13 Industrial Pharmacist
 2382-15 Retail Pharmacist
2383 Occupational Therapists
 2383-11 Occupational Therapist
2384 Optometrists
 2384-11 Optometrist
2385 Physiotherapists
 2385-11 Physiotherapist
2386 Speech Pathologists
 2386-11 Speech Pathologist
2387 Chiropractors and Osteopaths

2387-11 Chiropractor
 2387-13 Osteopath
2388 Podiatrists
 2388-11 Podiatrist
2391 Medical Imaging Professionals
 2391-11 Medical Diagnostic Radiographer
 2391-13 Radiation Therapist
 2391-15 Nuclear Medicine Technologist
 2391-17 Sonographer
2392 Veterinarians
 2392-11 Veterinarian
2393 Dietitians
 2393-11 Dietitian
2394 Natural Therapy Professionals
 2394-11 Naturopath
 2394-13 Acupuncturist
 2394-79 Natural Therapy Professionals nec
2399 Other Health Professionals
 2399-11 Audiologist
 2399-13 Orthoptist
 2399-15 Orthotist
 2399-79 Health Professionals nec
24 EDUCATION PROFESSIONALS
241 SCHOOL TEACHERS
2411 Pre-Primary School Teachers
 2411-11 Pre-Primary School Teacher
2412 Primary School Teachers
 2412-11 Primary School Teacher
2413 Secondary School Teachers
 2413-11 Secondary School Teacher
2414 Special Education Teachers
 2414-11 Special Needs Teacher
 2414-13 Teacher of the Hearing Impaired
 2414-15 Teacher of the Sight Impaired
 2414-79 Special Education Teachers nec
242 UNIVERSITY AND VOCATIONAL EDUCATION TEACHERS
2421 University Lecturers and Tutors
 2421-11 University Lecturer
 2421-13 University Tutor
2422 Vocational Education Teachers
 2422-11 Vocational Education Teacher

249 MISCELLANEOUS EDUCATION PROFESSIONALS

2491 Extra-Systemic Teachers

2491-11 Art Teacher (Private)

2491-13 Music Teacher (Private)

2491-15 Dance Teacher (Private)

2491-17 Drama Teacher (Private)

2491-79 Extra-Systemic Teachers nec

2492 English as a Second Language Teachers

2492-11 English as a Second Language Teacher

2493 Education Officers

2493-11 Education Officer

25 SOCIAL, ARTS AND MISCELLANEOUS PROFESSIONALS

251 SOCIAL WELFARE PROFESSIONALS

2511 Social Workers

2511-11 Social Worker

2512 Welfare and Community Workers

2512-11 Welfare Worker

2512-13 Community Worker

2513 Counsellors

2513-11 Rehabilitation Counsellor

2513-13 Drug and Alcohol Counsellor

2513-15 Family Counsellor

2513-17 Careers Counsellor

2513-19 Student Counsellor

2513-79 Counsellors nec

2514 Psychologists

2514-11 Clinical Psychologist

2514-13 Educational Psychologist

2514-15 Organisational Psychologist

2514-79 Psychologists nec

2515 Ministers of Religion

2515-11 Minister of Religion

252 MISCELLANEOUS SOCIAL PROFESSIONALS

2521 Legal Professionals

2521-11 Barrister

2521-13 Solicitor

2521-79 Legal Professionals nec

2522 Economists

2522-11 Economist

2523 Urban and Regional Planners

2523-11 Urban and Regional Planner

2529 Other Social Professionals

2529-11 Historian

2529-13 Interpreter

2529-15 Translator

2529-79 Social Professionals nec

253 ARTISTS AND RELATED PROFESSIONALS

2531 Visual Arts and Crafts Professionals

2531-11 Painter (Visual Arts)

2531-13 Sculptor

2531-15 Potter or Ceramic Artist

2531-79 Visual Arts and Crafts Professionals nec

2532 Photographers

2532-11 Photographer

2533 Designers and Illustrators

2533-11 Fashion Designer

2533-13 Graphic Designer

2533-15 Industrial Designer

2533-17 Interior Designer

2533-19 Illustrator

2534 Journalists and Related Professionals

2534-11 Editor

2534-13 Print Journalist

2534-15 Television Journalist

2534-17 Radio Journalist

2534-19 Copywriter

2534-21 Technical Writer

2534-79 Journalists and Related Professionals nec

2535 Authors and Related Professionals

2535-11 Author

2535-13 Book Editor

2535-15 Script Editor

2536 Film, Television, Radio and Stage Directors

2536-11 Art Director (Film, Television or Stage)

2536-13 Director (Film, Television, Radio or Stage)

2536-15 Director of Photography

2536-17 Film and Video Editor

2536-19 Stage Manager

2536-21 Program Director (Radio or Television)

2536-23 Technical Director

2536-79 Film, Television, Radio and Stage Directors
nec

2537 Musicians and Related Professionals

2537-11 Music Director

2537-13 Singer

2537-15 Instrumental Musician

2537-17 Composer

2537-79 Musicians and Related Professionals nec

2538 Actors, Dancers and Related Professionals

2538-11 Actor

2538-13 Dancer or Choreographer

2538-79 Actors, Dancers and Related Professionals
nec

2539 Media Presenters

2539-11 Radio Presenter

2539-13 Television Presenter

254 MISCELLANEOUS PROFESSIONALS

2541 Air Transport Professionals

2541-11 Aircraft Pilot

2541-13 Air Traffic Controller

2541-15 Flight Service Officer

2541-17 Flight Engineer

2541-19 Flying Instructor

2541-79 Air Transport Professionals nec

2542 Sea Transport Professionals

2542-11 Ship's Master

2542-13 Master Fisher

2542-15 Ship's Engineer

2542-17 Ship's Surveyor

2542-19 Ship's Officer

2542-79 Sea Transport Professionals nec

2543 Occupational and Environmental Health Professionals

2543-11 Occupational Health and Safety Officer

2543-13 Environmental Health Officer

2549 Other Professionals

2549-11 Conservator

2549-13 Electorate Officer

2549-15 Patents Examiner

2549-17 Oenologist

2549-19 Recreation Officer

2549-21 Museum or Gallery Curator

2549-79 Professionals nec

3 ASSOCIATE PROFESSIONALS

31 SCIENCE, ENGINEERING AND RELATED ASSOCIATE PROFESSIONALS

311 MEDICAL AND SCIENCE TECHNICAL OFFICERS

3111 Medical Technical Officers

3111-11 Medical Laboratory Technical Officer

3111-79 Medical Technical Officers nec

3112 Science Technical Officers

3112-11 Chemistry Technical Officer

3112-13 Earth Science Technical Officer

3112-15 Life Science Technical Officer

3112-17 Agricultural Technical Officer

3112-79 Science Technical Officers nec

312 BUILDING AND ENGINEERING ASSOCIATE PROFESSIONALS

3121 Building, Architectural and Surveying Associate Professionals

3121-11 Building Associate

3121-13 Architectural Associate

3121-15 Surveying and Cartographic Associate

3121-17 Building Inspector

3121-19 Plumbing Inspector

3121-21 Plumbing Engineering Associate

3122 Civil Engineering Associate Professionals

3122-11 Civil Engineering Associate

3122-13 Civil Engineering Technician

3123 Electrical Engineering Associate Professionals

3123-11 Electrical Engineering Associate

3123-13 Electrical Engineering Technician

3124 Electronic Engineering Associate Professionals

3124-11 Electronic Engineering Associate

3124-13 Electronic Engineering Technician

3125 Mechanical Engineering Associate Professionals

3125-11 Mechanical Engineering Associate

3125-13 Mechanical Engineering Technician

3129 Other Building and Engineering Associate Professionals

3129-11 Biomedical Engineering Associate

3129-13 Metallurgical and Materials Technician

3129-15 Mine Deputy
 3129-79 Building and Engineering Associate Professionals nec

32 BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS

321 FINANCE ASSOCIATE PROFESSIONALS

3211 Branch Accountants and Managers (Financial Institution)
 3211-11 Branch Accountant (Financial Institution)
 3211-13 Financial Institution Branch Manager

3212 Financial Dealers and Brokers
 3212-11 Stockbroking Dealer
 3212-13 Futures Trader
 3212-15 Financial Market Dealer
 3212-17 Commodities Trader
 3212-19 Insurance Broker
 3212-21 Bookmaker
 3212-79 Financial Dealers and Brokers nec

3213 Financial Investment Advisers
 3213-11 Financial Investment Adviser

329 MISCELLANEOUS BUSINESS AND ADMINISTRATION ASSOCIATE PROFESSIONALS

3291 Office Managers
 3291-11 Office Manager

3292 Project and Program Administrators
 3292-11 Project or Program Administrator

3293 Real Estate Associate Professionals
 3293-11 Real Estate Agency Manager
 3293-13 Property Manager
 3293-15 Real Estate Salesperson

3294 Computing Support Technicians
 3294-11 Computing Support Technician

33 MANAGING SUPERVISORS (SALES AND SERVICE)

331 SHOP MANAGERS

3311 Shop Managers
 3311-11 Shop Manager

332 HOSPITALITY AND ACCOMMODATION MANAGERS

3321 Restaurant and Catering Managers
 3321-11 Restaurant and Catering Manager

3322 Chefs
 3322-01 Head Chef
 3322-11 Chef

3323 Hotel and Motel Managers
 3323-11 Hotel or Motel Manager

3324 Club Managers (Licensed Premises)
 3324-11 Club Manager (Licensed Premises)

3325 Caravan Park and Camping Ground Managers
 3325-11 Caravan Park and Camping Ground Manager

3329 Other Hospitality and Accommodation Managers
 3329-11 Other Hospitality and Accommodation Managers

339 MISCELLANEOUS MANAGING SUPERVISORS (SALES AND SERVICE)

3391 Sport and Recreation Managers
 3391-11 Fitness Centre Manager
 3391-13 Other Sports Centre Manager
 3391-15 Amusement Centre Manager
 3391-79 Sport and Recreation Managers nec

3392 Customer Service Managers
 3392-11 Customer Service Manager

3393 Transport Company Managers
 3393-11 Transport Company Manager

3399 Other Managing Supervisors (Sales and Service)
 3399-11 Post Office Manager
 3399-13 Railway Station Manager
 3399-15 Betting Agency Branch Manager
 3399-17 Hair and Beauty Salon Manager
 3399-19 Car Rental Agency Manager
 3399-21 Fleet Manager
 3399-23 Stock and Station Agent
 3399-25 Travel Agency Manager
 3399-27 Theatre or Cinema Manager
 3399-29 Funeral Director
 3399-79 Managing Supervisors (Sales and Service) nec

34 HEALTH AND WELFARE ASSOCIATE PROFESSIONALS

341 ENROLLED NURSES

3411 Enrolled Nurses

3411-11 Enrolled Nurse

342 WELFARE ASSOCIATE PROFESSIONALS

3421 Welfare Associate Professionals

3421-11 Parole or Probation Officer

3421-13 Youth Worker

3421-15 Residential Care Officer

3421-17 Disabilities Services Officer

3421-19 Family Support Worker

349 MISCELLANEOUS HEALTH AND WELFARE ASSOCIATE PROFESSIONALS

3491 Ambulance Officers and Paramedics

3491-11 Ambulance Officer

3491-13 Intensive Care Ambulance Paramedic

3492 Dental Associate Professionals

3492-11 Dental Therapist

3492-13 Dental Hygienist

3492-15 Dental Technician

3493 Aboriginal and Torres Strait Islander Health Workers

3493-11 Aboriginal and Torres Strait Islander Health Worker

3494 Massage Therapists

3494-11 Massage Therapist

39 OTHER ASSOCIATE PROFESSIONALS

391 POLICE OFFICERS

3911 Police Officers

3911-01 Supervisor, Police Officers

3911-11 Police Officer

399 MISCELLANEOUS ASSOCIATE PROFESSIONALS

3991 Primary Products Inspectors

3991-11 Primary Products Inspector

3992 Safety Inspectors

3992-11 Safety Inspector

3993 Sportspersons, Coaches and Related Support Workers

3993-11 Jockey

3993-13 Golfer

3993-15 Footballer

3993-17 Other Sportsperson

3993-19 Gymnastics Coach

3993-21 Tennis Coach

3993-23 Swimming Coach

3993-25 Horseriding Coach

3993-27 Other Sports Coach

3993-29 Sports Development Officer

3993-31 Sports Umpire

3993-33 Horse or Dog Racing Official

3993-35 Other Sports Official

3994 Senior Non-Commissioned Defence Force Officers

3994-11 Senior Non-Commissioned Defence Force Officer

3995 Senior Fire Fighters

3995-11 Senior Fire Fighter

3996 Retail Buyers

3996-11 Retail Buyer

3997 Library Technicians

3997-11 Library Technician

3999 Other Miscellaneous Associate Professionals

3999-11 Interior Decorator

3999-13 Museum or Art Gallery Technician

3999-15 Radio Operator

3999-17 Private Investigator

3999-19 Security Adviser

3999-79 Associate Professionals nec

4 TRADESPERSONS AND RELATED WORKERS

41 MECHANICAL AND FABRICATION ENGINEERING TRADESPERSONS

411 MECHANICAL ENGINEERING TRADESPERSONS

4111 General Mechanical Engineering Tradespersons

4111-01 Supervisor, General Mechanical Engineering Tradespersons

4111-11 General Mechanical Engineering Tradesperson

4111-81 Apprentice General Mechanical Engineering Tradesperson

4112 Metal Fitters and Machinists

4112-01 Supervisor, Metal Fitters and Machinists

4112-11 Fitter

4112-13 Metal Machinist (First Class)

4112-15 Textile, Clothing or Footwear Mechanic

4112-81 Apprentice Fitter
 4112-83 Apprentice Metal Machinist
 4112-85 Apprentice Textile, Clothing or Footwear Mechanic
4113 Toolmakers
 4113-01 Supervisor, Toolmakers
 4113-11 Toolmaker
 4113-81 Apprentice Toolmaker
4114 Aircraft Maintenance Engineers
 4114-01 Supervisor, Aircraft Maintenance Engineers
 4114-11 Aircraft Maintenance Engineer (Mechanical)
 4114-13 Aircraft Maintenance Engineer (Structures)
 4114-15 Aircraft Maintenance Engineer (Avionics)
 4114-81 Apprentice Aircraft Maintenance Engineer (Mechanical)
 4114-83 Apprentice Aircraft Maintenance Engineer (Structures)
 4114-85 Apprentice Aircraft Maintenance Engineer (Avionics)
4115 Precision Metal Tradespersons
 4115-01 Supervisor, Precision Metal Tradespersons
 4115-11 Precision Instrument Maker and Repairer
 4115-13 Watch and Clock Maker and Repairer
 4115-15 Locksmith
 4115-17 Saw Maker and Repairer
 4115-19 Gunsmith
 4115-21 Engraver
 4115-81 Apprentice Precision Metal Tradesperson
412 FABRICATION ENGINEERING TRADESPERSONS
4121 General Fabrication Engineering Tradespersons
 4121-01 Supervisor, General Fabrication Engineering Tradespersons
 4121-11 General Fabrication Engineering Tradesperson
 4121-81 Apprentice General Fabrication Engineering Tradesperson
4122 Structural Steel and Welding Tradespersons
 4122-01 Supervisor, Structural Steel and Welding Tradespersons
 4122-11 Metal Fabricator
 4122-13 Pressure Welder
 4122-15 Welder (First Class)
 4122-81 Apprentice Metal Fabricator

4122-83 Apprentice Welder
4123 Forging Tradespersons
 4123-01 Supervisor, Forging Tradespersons
 4123-11 Blacksmith
 4123-13 Farrier
 4123-81 Apprentice Blacksmith
 4123-83 Apprentice Farrier
4124 Sheetmetal Tradespersons
 4124-01 Supervisor, Sheetmetal Tradespersons
 4124-11 Sheetmetal Worker (First Class)
 4124-81 Apprentice Sheetmetal Worker
4125 Metal Casting Tradespersons
 4125-01 Supervisor, Metal Casting Tradespersons
 4125-11 Metal Casting Tradesperson
 4125-81 Apprentice Metal Casting Tradesperson
4126 Metal Finishing Tradespersons
 4126-01 Supervisor, Metal Finishing Tradespersons
 4126-11 Metal Polisher
 4126-13 Electroplater (First Class)
 4126-81 Apprentice Metal Polisher
 4126-83 Apprentice Electroplater
42 AUTOMOTIVE TRADESPERSONS
421 AUTOMOTIVE TRADESPERSONS
4211 Motor Mechanics
 4211-01 Supervisor, Motor Mechanics
 4211-11 Motor Mechanic
 4211-81 Apprentice Motor Mechanic
4212 Automotive Electricians
 4212-01 Supervisor, Automotive Electricians
 4212-11 Automotive Electrician
 4212-81 Apprentice Automotive Electrician
4213 Panel Beaters
 4213-01 Supervisor, Panel Beaters
 4213-11 Panel Beater
 4213-81 Apprentice Panel Beater
4214 Vehicle Painters
 4214-01 Supervisor, Vehicle Painters
 4214-11 Vehicle Painter
 4214-81 Apprentice Vehicle Painter
4215 Vehicle Body Makers
 4215-01 Supervisor, Vehicle Body Makers
 4215-11 Vehicle Body Maker

4215-81 Apprentice Vehicle Body Maker

4216 Vehicle Trimmers

4216-01 Supervisor, Vehicle Trimmers

4216-11 Vehicle Trimmer

4216-81 Apprentice Vehicle Trimmer

43 ELECTRICAL AND ELECTRONICS TRADESPERSONS

431 ELECTRICAL AND ELECTRONICS TRADESPERSONS

4311 Electricians

4311-01 Supervisor, Electricians

4311-11 General Electrician

4311-13 Electrician (Special Class)

4311-15 Lift Mechanic

4311-81 Apprentice Electrician

4311-83 Apprentice Lift Mechanic

4312 Refrigeration and Airconditioning Mechanics

4312-01 Supervisor, Refrigeration and Airconditioning Mechanics

4312-11 Refrigeration and Airconditioning Mechanic

4312-81 Apprentice Refrigeration and Airconditioning Mechanic

4313 Electrical Distribution Tradespersons

4313-01 Supervisor, Electrical Distribution Tradespersons

4313-11 Electrical Powerline Tradesperson

4313-13 Cable Joiner

4313-81 Apprentice Electrical Powerline Tradesperson

4313-83 Apprentice Cable Joiner

4314 Electronic Instrument Tradespersons

4314-01 Supervisor, Electronic Instrument Tradespersons

4314-11 General Electronic Instrument Tradesperson

4314-13 Electronic Instrument Tradesperson (Special Class)

4314-81 Apprentice Electronic Instrument Tradesperson

4315 Electronic and Office Equipment Tradespersons

4315-01 Supervisor, Electronic and Office Equipment Tradespersons

4315-11 Electronic Equipment Tradesperson

4315-13 Business Machine Mechanic

4315-81 Apprentice Electronic Equipment Tradesperson

4315-83 Apprentice Business Machine Mechanic

4316 Communications Tradespersons

4316-01 Supervisor, Communications Tradespersons

4316-11 General Communications Tradesperson

4316-13 Communications Linesperson

4316-81 Apprentice General Communications Tradesperson

4316-83 Apprentice Communications Linesperson

44 CONSTRUCTION TRADESPERSONS

441 STRUCTURAL CONSTRUCTION TRADESPERSONS

4411 Carpentry and Joinery Tradespersons

4411-01 Supervisor, Carpentry and Joinery Tradespersons

4411-11 Carpenter and Joiner

4411-13 Carpenter

4411-15 Joiner

4411-81 Apprentice Carpenter and Joiner

4411-83 Apprentice Carpenter

4411-85 Apprentice Joiner

4412 Fibrous Plasterers

4412-01 Supervisor, Fibrous Plasterers

4412-11 Fibrous Plasterer

4412-81 Apprentice Fibrous Plasterer

4413 Roof Slaters and Tilers

4413-01 Supervisor, Roof Slaters and Tilers

4413-11 Roof Slater and Tiler

4413-81 Apprentice Roof Slater and Tiler

4414 Bricklayers

4414-01 Supervisor, Bricklayers

4414-11 Bricklayer

4414-81 Apprentice Bricklayer

4415 Solid Plasterers

4415-01 Supervisor, Solid Plasterers

4415-11 Solid Plasterer

4415-81 Apprentice Solid Plasterer

4416 Wall and Floor Tilers and Stonemasons

4416-01 Supervisor, Wall and Floor Tilers and Stonemasons

4416-11 Wall and Floor Tiler

4416-13 Stonemason

4416-81 Apprentice Wall and Floor Tiler
 4416-83 Apprentice Stonemason
442 FINAL FINISHES CONSTRUCTION TRADESPERSONS
4421 Painters and Decorators
 4421-01 Supervisor, Painters and Decorators
 4421-11 Painter and Decorator
 4421-81 Apprentice Painter and Decorator
4422 Signwriters
 4422-01 Supervisor, Signwriters
 4422-11 Signwriter
 4422-81 Apprentice Signwriter
4423 Floor Finishers
 4423-01 Supervisor, Floor Finishers
 4423-11 Floor Finisher
 4423-81 Apprentice Floor Finisher
443 PLUMBERS
4431 Plumbers
 4431-01 Supervisor, Plumbers
 4431-11 General Plumber
 4431-13 Gasfitter
 4431-15 Drainer
 4431-17 Roof Plumber
 4431-19 Mechanical Services and Airconditioning Plumber
 4431-81 Apprentice General Plumber
 4431-83 Apprentice Gasfitter
 4431-85 Apprentice Drainer
 4431-87 Apprentice Roof Plumber
 4431-89 Apprentice Mechanical Services and Airconditioning Plumber
45 FOOD TRADESPERSONS
451 FOOD TRADESPERSONS
4511 Meat Tradespersons
 4511-01 Supervisor, Meat Tradespersons
 4511-11 Butcher
 4511-13 Smallgoods Maker
 4511-15 Slaughterperson
 4511-81 Apprentice Butcher
 4511-83 Apprentice Smallgoods Maker
 4511-85 Apprentice Slaughterperson
4512 Bakers and Pastrycooks
 4512-01 Supervisor, Bakers and Pastrycooks

4512-11 Baker
 4512-13 Pastrycook
 4512-81 Apprentice Baker
 4512-83 Apprentice Pastrycook
4513 Cooks
 4513-11 Cook
 4513-81 Apprentice Cook or Chef
4519 Other Food Tradespersons
 4519-11 Miller
 4519-13 Buttermaker or Cheesemaker
 4519-15 Confectioner
 4519-81 Apprentice Miller
 4519-83 Apprentice Buttermaker or Cheesemaker
 4519-85 Apprentice Confectioner
46 SKILLED AGRICULTURAL AND HORTICULTURAL WORKERS
461 SKILLED AGRICULTURAL WORKERS
4611 Farm Overseers
 4611-11 Farm Overseer
4612 Shearers
 4612-11 Shearer
4613 Wool, Hide and Skin Classers
 4613-11 Wool Classer
 4613-13 Hide and Skin Classer
4614 Animal Trainers
 4614-11 Horse Trainer
 4614-79 Animal Trainers nec
462 HORTICULTURAL TRADESPERSONS
4621 Nurserypersons
 4621-11 Nurseryperson
 4621-81 Apprentice Nurseryperson
4622 Greenkeepers
 4622-11 Greenkeeper
 4622-81 Apprentice Greenkeeper
4623 Gardeners
 4623-01 Head Gardener
 4623-11 General Gardener
 4623-13 Landscape Gardener
 4623-15 Tree Surgeon
 4623-81 Apprentice General Gardener
 4623-83 Apprentice Landscape Gardener
 4623-85 Apprentice Tree Surgeon

49 OTHER TRADESPERSONS AND RELATED WORKERS

491 PRINTING TRADESPERSONS

4911 Graphic Pre-Press Tradespersons

4911-11 Graphic Pre-Press Tradesperson

4911-81 Apprentice Graphic Pre-Press Tradesperson

4912 Printing Machinists and Small Offset Printers

4912-11 Printing Machinist

4912-13 Small Offset Printer

4912-81 Apprentice Printing Machinist

4912-83 Apprentice Small Offset Printer

4913 Binders and Finishers

4913-11 Binder and Finisher

4913-81 Apprentice Binder and Finisher

4914 Screen Printers

4914-11 Screen Printer

4914-81 Apprentice Screen Printer

492 WOOD TRADESPERSONS

4921 Wood Machinists and Turners

4921-11 Wood Machinist (A-Grade)

4921-13 Wood Turner

4921-81 Apprentice Wood Machinist

4921-83 Apprentice Wood Turner

4922 Cabinetmakers

4922-01 Supervisor, Cabinetmakers

4922-11 Cabinetmaker

4922-81 Apprentice Cabinetmaker

4929 Other Wood Tradespersons

4929-11 Picture Framer

4929-13 Furniture Finisher

4929-79 Wood Tradespersons nec

4929-81 Apprentice Picture Framer

4929-83 Apprentice Furniture Finisher

4929-99 Apprentice Wood Tradespersons nec

493 HAIRDRESSERS

4931 Hairdressers

4931-01 Supervisor, Hairdressers

4931-11 Hairdresser

4931-81 Apprentice Hairdresser

494 TEXTILE, CLOTHING AND RELATED TRADESPERSONS

4941 Clothing Tradespersons

4941-11 General Clothing Tradesperson

4941-13 Tailor

4941-15 Dressmaker

4941-17 Apparel Cutter

4941-19 Patternmaker-Grader (Clothing)

4941-79 Clothing Tradespersons nec

4941-81 Apprentice Clothing Tradesperson

4942 Upholsterers and Bedding Tradespersons

4942-11 Furniture Upholsterer

4942-79 Upholsterers and Bedding Tradespersons nec

4942-81 Apprentice Upholsterer or Bedding Tradespersons

4943 Footwear Tradespersons

4943-11 Shoemaker

4943-13 Medical Grade Shoemaker

4943-81 Apprentice Shoemaker

4944 Leather Goods, Canvas Goods and Sail Makers

4944-11 Leather Goods Maker

4944-13 Canvas Goods Maker

4944-15 Sail Maker

4944-81 Apprentice Leather Goods, Canvas Goods or Sail Maker

498 MISCELLANEOUS TRADESPERSONS AND RELATED WORKERS

4981 Marine Construction Tradespersons

4981-11 Shipwright

4981-13 Boat Builder and Repairer

4981-81 Apprentice Shipwright

4981-83 Apprentice Boat Builder and Repairer

4982 Glass Tradespersons

4982-11 Flat Glass Tradesperson

4982-13 Glass Blower

4982-81 Apprentice Flat Glass Tradesperson

4982-83 Apprentice Glass Blower

4983 Jewellers and Related Tradespersons

4983-11 Jeweller

4983-13 Gem Cutter and Polisher

4983-81 Apprentice Jeweller

4983-83 Apprentice Gem Cutter and Polisher

4984 Florists
 4984-11 Florist
4985 Fire Fighters
 4985-11 Fire Fighter
4986 Drillers
 4986-01 Supervisor, Drillers
 4986-11 Driller
4987 Chemical, Petroleum and Gas Plant Operators
 4987-01 Supervisor, Chemical, Petroleum and Gas Plant Operators
 4987-11 Chemical Plant Operator
 4987-13 Petroleum and Gas Plant Operator
4988 Power Generation Plant Operators
 4988-01 Supervisor, Power Generation Plant Operators
 4988-11 Power Generation Plant Operator
4991 Defence Force Members Not Elsewhere Included
 4991-11 Defence Force Member Not Elsewhere Included
 4991-81 Trainee Defence Force Member Not Elsewhere Included
4992 Performing Arts Support Workers
 4992-11 Sound Technician
 4992-13 Camera Operator (Film, Television or Video)
 4992-15 Television Equipment Operator
 4992-17 Broadcast Transmitter Operator
 4992-19 Motion Picture Projectionist
 4992-21 Light Technician
 4992-23 Production Assistant (Film, Television or Radio)
 4992-25 Production Assistant (Theatre)
 4992-27 Make Up Artist
 4992-79 Performing Arts Support Workers nec
4999 Other Miscellaneous Tradespersons and Related Workers
 4999-11 Optical Mechanic
 4999-13 Diver
 4999-15 Aircraft Safety Equipment Worker
 4999-17 Piano Tuner
 4999-79 Tradespersons and Related Workers nec

5 ADVANCED CLERICAL AND SERVICE WORKERS
51 SECRETARIES AND PERSONAL ASSISTANTS
 511 SECRETARIES AND PERSONAL ASSISTANTS
 5111 Secretaries and Personal Assistants
 5111-11 Secretary
 5111-13 Personal Assistant
59 OTHER ADVANCED CLERICAL AND SERVICE WORKERS
591 ADVANCED NUMERICAL CLERKS
 5911 Bookkeepers
 5911-11 Bookkeeper
5912 Credit and Loans Officers
 5912-11 Credit and Loans Officer
599 MISCELLANEOUS ADVANCED CLERICAL AND SERVICE WORKERS
5991 Advanced Legal and Related Clerks
 5991-11 Clerk of Court
 5991-13 Law Clerk
 5991-15 Trust Officer
5992 Court and Hansard Reporters
 5992-11 Court or Hansard Reporter
5993 Insurance Agents
 5993-11 Insurance Agent
5994 Insurance Risk Surveyors, Investigators and Loss Adjusters
 5994-11 Insurance Risk Surveyor
 5994-13 Insurance Investigator
 5994-15 Insurance Loss Adjuster
5995 Desktop Publishing Operators
 5995-11 Desktop Publishing Operator
5996 Travel Attendants
 5996-11 Flight Service Director
 5996-13 Flight Attendant
 5996-79 Travel Attendants nec
5999 Other Miscellaneous Advanced Clerical and Service Workers
 5999-11 Radio Despatcher
 5999-13 Auctioneer
 5999-15 Visual Merchandiser
 5999-17 Photographer's Assistant

**6 INTERMEDIATE CLERICAL,
SALES AND SERVICE WORKERS**

**61 INTERMEDIATE CLERICAL
WORKERS**

611 GENERAL CLERKS

6111 General Clerks

6111-11 General Clerk

612 KEYBOARD OPERATORS

6121 Keyboard Operators

6121-11 Typist and Word Processing Operator

6121-13 Data Entry Operator

613 RECEPTIONISTS

6131 Receptionists

6131-11 Receptionist

614 INTERMEDIATE NUMERICAL CLERKS

6141 Accounting Clerks

6141-01 Supervisor, Accounting Clerks

6141-11 Accounts Clerk

6141-13 Credit Clerk

6141-15 Cost Clerk

6142 Payroll Clerks

6142-11 Payroll Clerk

6143 Bank Workers

6143-01 Supervisor, Bank Workers

6143-11 Bank Worker

6144 Insurance Clerks

6144-01 Supervisor, Insurance Clerks

6144-11 Insurance Clerk

6145 Money Market and Statistical Clerks

6145-01 Supervisor, Money Market and Statistical Clerks

6145-11 Money Market Clerk

6145-13 Statistical Clerk

**615 MATERIAL RECORDING AND
DESPATCHING CLERKS**

6151 Production Recording Clerks

6151-11 Production Recording Clerk

6152 Transport and Despatching Clerks

6152-01 Supervisor, Transport and Despatching Clerks

6152-11 Receiving and Despatching Clerk

6152-13 Import-Export Clerk

6153 Stock and Purchasing Clerks

6153-01 Supervisor, Stock and Purchasing Clerks

6153-11 Stock Clerk

6153-13 Purchasing Officer

6153-15 Order Clerk

6153-17 Sales Clerk

**619 MISCELLANEOUS INTERMEDIATE
CLERICAL WORKERS**

6191 Inquiry and Admissions Clerks

6191-11 Inquiry Clerk

6191-13 Admissions Clerk

6192 Library Assistants

6192-11 Library Assistant

6193 Personnel Clerks

6193-11 Personnel Records Clerk

6193-13 Employment Office Clerk

6194 Intermediate Inspectors and Examiners

6194-11 Customs Inspector

6194-13 Taxation Inspector

6194-15 Social Security Assessor

6194-17 Motor Vehicle Licence Examiner

6194-19 Transport Operations Inspector

6194-21 Train Examiner

6194-23 Water Inspector

6194-79 Intermediate Inspectors and Examiners
nec

6199 Other Intermediate Clerical Workers

6199-11 Proof Reader

6199-13 Debt Collector

6199-15 Mail Supervisor

6199-17 Court Orderly

6199-19 Bailiff or Sheriff

6199-21 Coding Clerk

6199-79 Intermediate Clerical Workers nec

**62 INTERMEDIATE SALES AND
RELATED WORKERS**

**621 INTERMEDIATE SALES AND RELATED
WORKERS**

6211 Sales Representatives

6211-11 Sales Representative (Personal and Household Goods)

6211-13 Sales Representative (Business Services)

6211-15 Sales Representative (Builder's and Plumber's Supplies)

6211-17 Sales Representative (Motor Vehicle Parts and Accessories)
 6211-79 Sales Representatives nec

6212 Motor Vehicle and Related Products Salespersons

6212-11 Motor Vehicle and Caravan Salesperson
 6212-13 Motor Vehicle Parts Interpreter

6213 Retail and Checkout Supervisors

6213-11 Retail Supervisor
 6213-13 Checkout Supervisor

63 INTERMEDIATE SERVICE WORKERS

631 CARERS AND AIDES

6311 Education Aides

6311-11 Pre-School Aide
 6311-13 Integration Aide
 6311-15 Teachers' Aide
 6311-17 Aboriginal and Torres Strait Islander Education Worker

6312 Children's Care Workers

6312-11 Child Care Worker
 6312-13 Family Day Care Worker
 6312-15 Nanny

6313 Special Care Workers

6313-11 Hostel Parent
 6313-13 Child or Youth Residential Care Assistant
 6313-15 Refuge Worker
 6313-17 Aged or Disabled Person Carer
 6313-19 Therapy Aide

6314 Personal Care and Nursing Assistants

6314-11 Personal Care Assistant
 6314-13 Nursing Assistant

632 HOSPITALITY WORKERS

6321 Hotel Service Supervisors

6321-11 Hotel Service Supervisor

6322 Bar Attendants

6322-01 Supervisor, Bar Attendants
 6322-11 Bar Attendant

6323 Waiters

6323-01 Supervisor, Waiters
 6323-11 General Waiter
 6323-13 Drink Waiter

6324 Hospitality Trainees

6324-11 Hospitality Trainee

639 MISCELLANEOUS INTERMEDIATE SERVICE WORKERS

6391 Dental Assistants

6391-11 Dental Assistant

6392 Veterinary Nurses

6392-11 Veterinary Nurse

6393 Prison Officers

6393-11 Prison Officer

6394 Gaming Workers

6394-11 Gaming Pit Boss
 6394-13 Gaming Table Supervisor
 6394-15 Gaming Dealer

6395 Personal Care Consultants

6395-11 Beauty Therapist
 6395-13 Natural Remedy Consultant
 6395-15 Weight Loss Consultant

6396 Fitness Instructors and Related Workers

6396-11 Fitness Instructor
 6396-13 Outdoor Adventure Leader

6397 Travel and Tourism Agents

6397-11 Travel Agent
 6397-13 Tourist Information Officer
 6397-15 Tour Guide

6399 Other Intermediate Service Workers

6399-11 Museum or Gallery Attendant
 6399-13 Driving Instructor
 6399-15 Animal Attendant
 6399-17 Pest and Weed Controller
 6399-79 Intermediate Service Workers nec

7 INTERMEDIATE PRODUCTION AND TRANSPORT WORKERS

71 INTERMEDIATE PLANT OPERATORS

711 MOBILE PLANT OPERATORS

7111 Mobile Construction Plant Operators

7111-11 General Construction Plant Operator
 7111-13 Bulldozer Operator
 7111-15 Backhoe Operator
 7111-17 Loader Operator
 7111-19 Grader Operator
 7111-21 Excavator Operator

7111-23	Paving Plant Operator	7211-11	Sewing Machinist
7111-25	Road Roller Operator	7212 Textile and Footwear Production Machine Operators	
7112 Forklift Drivers		7212-01	Supervisor, Textile and Footwear Production Machine Operators
7112-11	Forklift Driver	7212-11	Yarn Carding and Spinning Machine Operator
7119 Other Mobile Plant Operators		7212-13	Weaving Machine Operator
7119-11	Agricultural and Horticultural Mobile Plant Operator	7212-15	Knitting Machine Operator
7119-13	Railway Track Repair Mobile Plant Operator	7212-17	Textile Dyeing and Finishing Machine Operator
7119-15	Streetsweeper Operator	7212-19	Hide and Skin Processing Machine Operator
7119-17	Logging Plant Operator	7212-21	Footwear Production Machine Operator
7119-79	Mobile Plant Operators nec	7212-79	Textile and Footwear Production Machine Operators nec
712 INTERMEDIATE STATIONARY PLANT OPERATORS		729 MISCELLANEOUS INTERMEDIATE MACHINE OPERATORS	
7121 Engine and Boiler Operators		7291 Plastics Production Machine Operators	
7121-11	Engine or Boiler Operator	7291-01	Supervisor, Plastics Production Machine Operators
7122 Crane, Hoist and Lift Operators		7291-11	General Plastics Production Machine Operator
7122-11	Crane, Hoist or Lift Operator	7291-13	Plastics Compounding and Reclamation Machine Operator
7123 Engineering Production Systems Workers		7291-15	Reinforced Plastic and Composite Production Worker
7123-01	Supervisor, Engineering Production Systems Workers	7291-17	Plastic Cabling Machine Operator
7123-11	Engineering Production Systems Worker	7291-79	Plastics Production Machine Operators nec
7124 Pulp and Paper Mill Operators		7292 Rubber Production Machine Operators	
7124-11	Pulp Mill Operator	7292-01	Supervisor, Rubber Production Machine Operators
7124-13	Paper Mill Operator	7292-11	Tyre Production Machine Operator
7129 Other Intermediate Stationary Plant Operators		7292-79	Rubber Production Machine Operators nec
7129-01	Supervisor, Other Intermediate Stationary Plant Operators	7293 Chemical Production Machine Operators	
7129-11	Railway Signal Operator	7293-01	Supervisor, Chemical Production Machine Operators
7129-13	Train Controller	7293-11	Chemical Production Machine Operator
7129-15	Concrete Pump Operator	7294 Wood Processing Machine Operators	
7129-17	Cement Production Plant Operator	7294-01	Supervisor, Wood Processing Machine Operators
7129-19	Concrete Batching Plant Operator	7294-11	Wood Processing Machine Operator
7129-21	Water and Waste Water Plant Operator	7295 Paper Products Machine Operators	
7129-23	Bulk Materials Handling Plant Operator	7295-11	Paper Products Machine Operator
7129-79	Intermediate Stationary Plant Operators nec	7296 Glass Production Machine Operators	
72 INTERMEDIATE MACHINE OPERATORS			
721 INTERMEDIATE TEXTILE, CLOTHING AND RELATED MACHINE OPERATORS			
7211 Sewing Machinists			
7211-01	Supervisor, Sewing Machinists		

7296-01 Supervisor, Glass Production Machine Operators

7296-11 Glass Production Machine Operator

7297 Clay, Stone and Concrete Processing Machine Operators

7297-01 Supervisor, Clay, Stone and Concrete Processing Machine Operators

7297-11 Clay Products Machine Operator

7297-13 Stone Processing Machine Operator

7297-15 Concrete Products Machine Operator

7297-79 Clay, Stone and Concrete Processing Machine Operators nec

7298 Photographic Developers and Printers

7298-11 Photographic Developer and Printer

7299 Other Intermediate Machine Operators

7299-11 Industrial Spray Painter

7299-79 Intermediate Machine Operators nec

73 ROAD AND RAIL TRANSPORT DRIVERS

731 ROAD AND RAIL TRANSPORT DRIVERS

7311 Truck Drivers

7311-11 Heavy Truck Driver

7311-13 Furniture Removalist

7312 Bus and Tram Drivers

7312-11 Bus Driver

7312-13 Tram Driver

7313 Automobile Drivers

7313-11 Automobile Driver

7314 Delivery Drivers

7314-11 Delivery Driver

7315 Train Drivers and Assistants

7315-11 Train Driver

7315-13 Train Driver's Assistant

79 OTHER INTERMEDIATE PRODUCTION AND TRANSPORT WORKERS

791 INTERMEDIATE MINING AND CONSTRUCTION WORKERS

7911 Miners

7911-11 Miner

7912 Blasting Workers

7912-11 Blasting Worker

7913 Structural Steel Construction Workers

7913-11 Scaffolder

7913-13 Steel Fixer

7913-15 Structural Steel Erector

7913-17 Construction Rigger

7914 Insulation and Home Improvements Installers

7914-11 Building Insulation Installer

7914-13 Home Improvements Installer

799 MISCELLANEOUS INTERMEDIATE PRODUCTION AND TRANSPORT WORKERS

7991 Motor Vehicle Parts and Accessories Fitters

7991-11 Motor Vehicle Parts and Accessories Fitter

7992 Product Quality Controllers

7992-11 Product Examiner

7992-13 Product Grader

7992-15 Product Tester

7993 Storepersons

7993-01 Supervisor, Storepersons

7993-11 Storeperson

7994 Seafarers and Fishing Hands

7994-11 Seafarer

7994-13 Fishing Hand

7995 Forestry and Logging Workers

7995-01 Supervisor, Forestry and Logging Workers

7995-11 Tree Faller

7995-13 Forestry Worker

7995-15 Logging Assistant

7996 Printing Hands

7996-11 Printing Table Hand

7996-13 Printer's Assistant

8 ELEMENTARY CLERICAL, SALES AND SERVICE WORKERS

81 ELEMENTARY CLERKS

811 ELEMENTARY CLERKS

8111 Registry and Filing Clerks

8111-11 Registry or Filing Clerk

8112 Mail Sorting Clerks

8112-11 Mail Clerk

8112-13 Postal Sorting Officer

8113 Switchboard Operators

8113-11 Switchboard Operator

8114 Messengers

8114-11 Courier

8114-13 Postal Delivery Officer

8115 Betting Clerks

8115-11 Betting Agency Counter Clerk

8115-13 Telephone Betting Clerk

8115-15 Bookmaker's Clerk

8115-79 Betting Clerks nec

8116 Office Trainees

8116-11 Office Trainee

8119 Other Elementary Clerks

8119-11 Meter Reader

8119-13 Classified Advertising Clerk

8119-15 Interviewer

8119-17 Parking Inspector

8119-79 Elementary Clerks nec

82 ELEMENTARY SALES WORKERS**821 SALES ASSISTANTS****8211 Sales Assistants**

8211-11 Sales Assistant (Food and Drink Products)

8211-13 Sales Assistant (Fabric, Clothing and Footwear)

8211-15 Sales Assistant (Other Personal and Household Goods)

8211-17 Sales Assistant (Postal Services)

8211-79 Sales Assistants nec

829 MISCELLANEOUS ELEMENTARY SALES WORKERS**8291 Checkout Operators and Cashiers**

8291-11 Checkout Operator

8291-13 Office Cashier

8292 Ticket Salespersons

8292-11 Ticket Seller

8292-13 Transport Conductor

8293 Street Vendors and Related Workers

8293-11 Street Vendor

8293-13 Cash Van Salesperson

8293-15 Door-to-Door Salesperson

8294 Telemarketers

8294-11 Telemarketer

8295 Sales Demonstrators and Models

8295-11 Sales Demonstrator

8295-13 Model

8296 Service Station Attendants

8296-11 Service Station Attendant

8297 Sales and Service Trainees

8297-11 Sales and Service Trainee

8299 Other Elementary Sales Workers

8299-11 Rental Salesperson

8299-13 Materials Recycler

8299-79 Elementary Sales Workers nec

83 ELEMENTARY SERVICE WORKERS**831 ELEMENTARY SERVICE WORKERS****8311 Guards and Security Officers**

8311-11 Security Officer

8311-13 Armoured Car Escort

8311-79 Guards and Security Officers nec

8312 Ushers, Porters and Related Workers

8312-11 Ticket Collector or Usher

8312-13 Luggage Porter or Doorperson

8313 Domestic Housekeepers

8313-11 Domestic Housekeeper

8314 Caretakers

8314-11 Caretaker

8315 Laundry Workers

8315-11 Laundry Worker

8319 Other Elementary Service Workers

8319-11 Railways Assistant

8319-13 Hair and Beauty Salon Assistant

8319-15 Sterilisation Technology Worker

8319-17 Car Park Attendant

8319-19 Crossing Supervisor

8319-21 Trolley Collector

8319-23 Leaflet and Newspaper Deliverer

8319-25 Examination Supervisor

8319-27 Prostitute or Escort

8319-79 Elementary Service Workers nec

9 LABOURERS AND RELATED WORKERS**91 CLEANERS****911 CLEANERS****9111 Cleaners**

9111-11 Commercial Cleaner

9111-13 Domestic Cleaner

9111-15	Carpet Cleaner	9222-11	Packager and Container Filler
9111-17	Vehicle Cleaner	99	OTHER LABOURERS AND RELATED WORKERS
9111-19	Window Cleaner	991	MINING, CONSTRUCTION AND RELATED LABOURERS
9111-79	Cleaners nec	9911	Mining Support Workers and Driller's Assistants
92	FACTORY LABOURERS	9911-11	Mining Support Worker
921	PROCESS WORKERS	9911-13	Driller's Assistant
9211	Engineering Production Process Workers	9912	Earthmoving Labourers
9211-11	Engineering Production Process Worker	9912-11	Earthmoving Labourer
9212	Product Assemblers	9913	Paving and Surfacing Labourers
9212-11	Product Assembler	9913-11	Paving and Surfacing Labourer
9213	Meat and Fish Process Workers	9914	Survey Hands
9213-11	Meatworks Labourer	9914-11	Survey Hand
9213-13	Meat Boner and Slicer	9915	Railway Labourers
9213-15	Poultry Process Worker	9915-11	Railway Labourer
9213-17	Fish Process Worker	9916	Construction and Plumber's Assistants
9214	Other Food Factory Hands	9916-11	Construction Assistant
9214-11	Food and Drink Processing Machine Attendant	9916-13	Plumber's Assistant
9214-13	Baking Factory Hand	9917	Concreters
9214-15	Dairy Factory Hand	9917-11	Concreter
9214-17	Fruit and Vegetable Factory Hand	9918	Electrical and Telecommunications Trades Assistants
9214-19	Food Products Millhand	9918-11	Electrical or Telecommunications Trades Assistant
9214-79	Food Factory Hands nec	9919	Other Mining, Construction and Related Labourers
9215	Wood Products Factory Hands	9919-11	Lagger
9215-11	Sawmill Labourer	9919-13	Crane Chaser
9215-13	Timberyard Labourer	9919-15	Fence Erector
9215-15	Wood and Wood Products Factory Hand	992	AGRICULTURAL AND HORTICULTURAL LABOURERS
9215-17	Pulp and Paper Mill General Hand	9921	Farm Hands
9219	Other Process Workers	9921-11	General Farm Hand
9219-11	Cement and Concrete Plant Labourer	9921-13	Fruit, Vegetable or Nut Farm Hand
9219-13	Clay Processing Factory Hand	9921-15	Stud Hand or Stable Hand
9219-15	Chemical Plant Labourer	9921-17	Shearing Shed Hand
9219-17	Rubber and Plastics Factory Hand	9921-79	Farm Hands nec
9219-19	Hide and Skin Processing Labourer	9922	Nursery and Garden Labourers
9219-21	Glass Processing Labourer	9922-11	Horticultural Nursery Assistant
9219-23	Fabric and Textile Factory Hand	9922-13	Garden Labourer
9219-25	Footwear Factory Hand	9929	Other Agricultural and Horticultural Labourers
9219-79	Process Workers nec		
922	PRODUCT PACKAGERS		
9221	Hand Packers		
9221-11	Hand Packer		
9222	Packagers and Container Fillers		

9929-11 Shooter-Trapper
 9929-13 Rural Trainee
 9929-79 Agricultural and Horticultural Labourers
 nec
**993 ELEMENTARY FOOD PREPARATION
 AND RELATED WORKERS**
9931 Kitchenhands
 9931-11 Kitchenhand
9932 Fast Food Cooks
 9932-11 Fast Food Cook
9933 Food Trades Assistants
 9933-11 Pastrycook's Assistant
 9933-79 Food Trades Assistants nec
**999 MISCELLANEOUS LABOURERS AND
 RELATED WORKERS**
9991 Garbage Collectors

9991-11 Garbage Collector
9992 Freight and Furniture Handlers
 9992-11 Freight Handler (Road and Rail)
 9992-13 Waterside Worker
 9992-15 Truck Driver's Offsider
9993 Handypersons
 9993-11 Handyman
**9999 Other Miscellaneous Labourers and
 Related Workers**
 9999-11 Vending Machine Attendant
 9999-13 Sign Erector
 9999-15 Mechanic's Assistant
 9999-17 Stormwater, Drainage and Sewerage
 System Labourer
 9999-79 Labourers and Related Workers nec

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